









SUSTAINABLE WINEGROWING & WINEMAKING

Sustainable Water Resources – April 10, 2018
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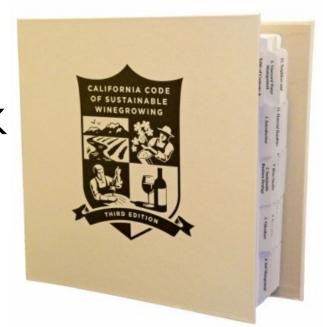






THE CODE WORKBOOK

15 Chapters covering 140 Vineyard & 104 Winery Best Practices

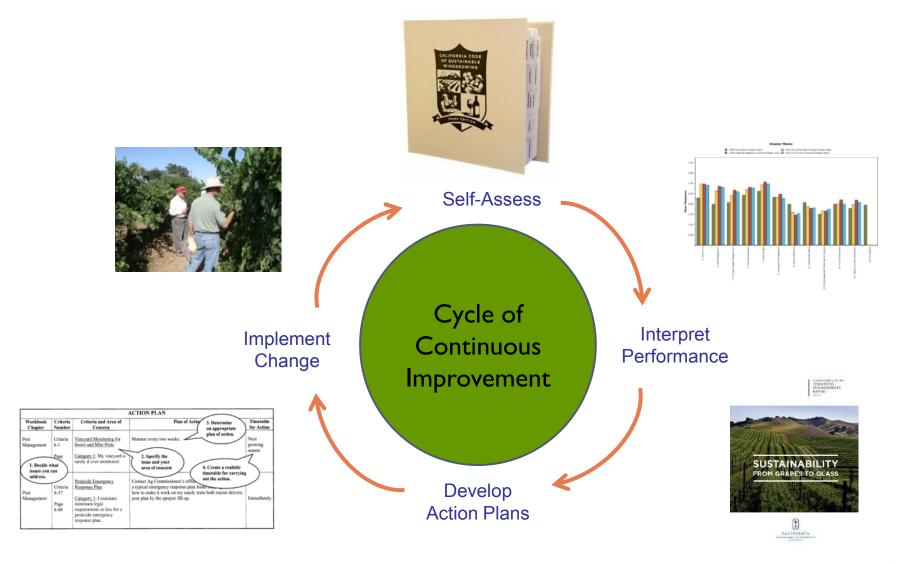


- Sustainable Business Strategy
- | Viticulture
- | Soil Management
- Vineyard Water Management
- | Pest Management
- | Wine Quality
- | Ecosystem Management
- | Energy Efficiency

- Winery Water Conservation & Quality
- Material Handling
- Solid Waste Reduction & Management
- | Environmentally Preferred Purchasing
- Human Resources
- Neighbors & Communities
- Air Quality

Download PDF workbook from CSWA website: www.sustainablewinegrowing.org

CYCLE OF CONTINUOUS IMPROVEMENT



TOOLS & RESOURCES



Online Assessment System (highlights benefit



SUSTAINABLE WATER MANAGEMENT HANDBOOK FOR SMALL WINERIES

APRIL 2014







CALIFORNIA

ALLIANCE







In-Depth Guide & Shorter Handbook



- Vineyard Sustainable Water Management Tool
- Winery Water Efficiency & Hot Spots Tool
- Winery Water Budgeting Tool
- Certification

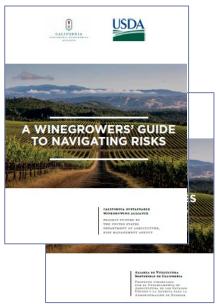
Resources:

- Importance & How to Conduct a Distribution Uniformity Test
- · Creek Restoration Video
- New Ways to Save Water

Cost-Benefit Calculators & Other Resources



Sustainability Metrics: Measure to Manage



Risk Guide in English & Spanish

CERTIFIED SUSTAINABLE

A third-party accredited auditor annually verifies that a vineyard or winery:

- Adopts sustainable practices based on Code
- | Meets certification requirements including:
 - Meets prerequisite practices
 - Meets minimum score threshold
 - Measures & records performance metrics
 - Complies with crop protection material









New wine logo: made in a certified winery with 85%+ certified & 100% CA





WATER EFFICIENCY

100%

developed comprehensive water management plans to optimize water use efficiency.

96%

measured their water use using flow meters or other methods such as calculation based on duration.

88%

used drip irrigation systems to deliver the optimum amount of water to each vine.

PEST MANAGEMENT

100%

monitored for pests as part of an **Integrated Pest** Management program to prevent and manage pests responsibly.

100%

explored low risk alternatives before applying pesticides and established buffer zones to protect sensitive areas.

86%

used cultural practices, such as cover crops and leaf removal, to naturally manage pests and reduce the need for pesticides.



100%

allowed vegetation to grow in the vineyard, used cover crops and/or composted to improve soil health and structure.

90%

used plant tissue analysis results to help make nutrient application decisions.

66%

reduced or eliminated tillage to lower the rate of organic matter breakdown and improve soil structure.

ENERGY EFFICIENCY

88%

reduced energy use through water pump improvements, which targeted the largest energy saving opportunity in the vineyard.

67%

conducted an energy audit of the vineyard irrigation pump within the last five years.

56%

tracked the fuel used and utilized practices and technologies to increase fuel efficiency.

